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IN THE CLAIMS

1. (Currently Amended) A component of a rotating machine comprised of a plurality of coils each wound on the pole teeth of a core through a bobbin, said bobbin having portions surrounding said pole teeth of said core for receiving coil windings and an integral terminal portion spaced radially from the coil windings, a plurality of wiring conductors integrally carried by said bobbin coil winding receiving portions, each of said wiring conductors having one terminal end connected at least one of said coil ends and ~~the other another~~ terminal end exposed within said terminal portion for connection connected to one external electrical connector through said terminal portion.

2. A component of a rotating machine as set forth in claim 1 wherein the bobbin is comprised of mating halves.

3. A component of a rotating machine as set forth in claim 2 wherein the bobbin mating halves encircle the pole teeth.

4. A component of a rotating machine as set forth in claim 3 wherein the other terminal end of all of the conductors are carried by one of the mating bobbin halves.

5. A component of a rotating machine as set forth in claim 4 wherein the one of the mating bobbin halves is molded with the conductor other terminal ends molded into the one mating bobbin half.

6. (Currently Amended) A component of a rotating machine comprised of a plurality of coils each wound on the pole teeth of a core through a bobbin, said bobbin having portions surrounding said pole teeth of said core for receiving coil windings and an integral terminal portion spaced radially from the coil windings, a plurality of wiring conductors carried by said bobbin coil winding receiving portions, each of said wiring conductors having one terminal end connected at least one of said coil ends and the other terminal end connected to one external electrical connector through said terminal portion, said as set forth in claim 1 wherein the coils are being combined into at least two groups with the coils of each group being continuously wound from a single wire conductor extending between ends of said wiring conductors.

7. A component of a rotating machine as set forth in claim 6 wherein the other ends of said single wire conductors are connected to other terminal end of the wiring connectors at a common external electrical connector.

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8. A component of a rotating machine as set forth in claim 7 wherein the common external electrical connector is adapted to cooperate with a detachable electrical connector through a male, female connection.

9. A component of a rotating machine as set forth in claim 8 wherein the male, female connection is made in a direction that extends radially to the axis of rotation of said machine.

10. A component of a rotating machine as set forth in claim 1 the bobbin is formed, integrally, with a plurality of internal wiring connectors each being formed with a terminal hole into which is led a coil end and with terminal hole into which is led one end of the wiring conductors, and further including a connecting block to be inserted in both of said terminal holes and provided with a connection circuit for connecting said coil ends and said wiring conductors.

11. (Currently Amended) A component of a rotating machine comprised of a plurality of coils each wound on the pole teeth of a core through a bobbin, said bobbin having portions surrounding said pole teeth of said core for receiving coil windings and an integral terminal portion spaced radially from the coil windings, a plurality of wiring conductors carried by said bobbin coil winding receiving portions, each of said wiring conductors having one terminal end connected at least one of said coil ends and the other terminal end connected to one external electrical connector through said terminal portion, said bobbin being formed integrally with a plurality of internal wiring connectors each being formed with a terminal hole into which is led a coil end and with terminal hole into which is led one end of the wiring conductors, and further including a connecting block to be inserted in both of said terminal holes and provided with a connection circuit for connecting said coil ends and said wiring conductors with said as set forth in claim 10 wherein the coils are being combined into at least two groups with the coils of each group being continuously wound from a single wire conductor extending between ends of said wiring conductors.

12. A component of a rotating machine as set forth in claim 11 wherein the other ends of said single wire conductors are connected to other terminal end of the wiring connectors at a common external electrical connector.

13. A component of a rotating machine as set forth in claim 12 wherein the common external electrical connector is adapted to cooperate with a detachable electrical connector through a male, female connection.

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14. A component of a rotating machine as set forth in claim 13 wherein the male, female connection is made in a direction that extends radially to the axis of rotation of said machine.

15. A component of a rotating machine as set forth in claim 14 wherein the bobbin is comprised of mating halves.

16. A component of a rotating machine as set forth in claim 15 wherein the bobbin mating halves encircle the pole teeth.

17. A component of a rotating machine as set forth in claim 16 wherein the conductors are all carried by one of the mating bobbin halves.

18. A component of a rotating machine as set forth in claim 17 wherein the one of the mating bobbin halves is molded the conductors molded into the one mating bobbin half.